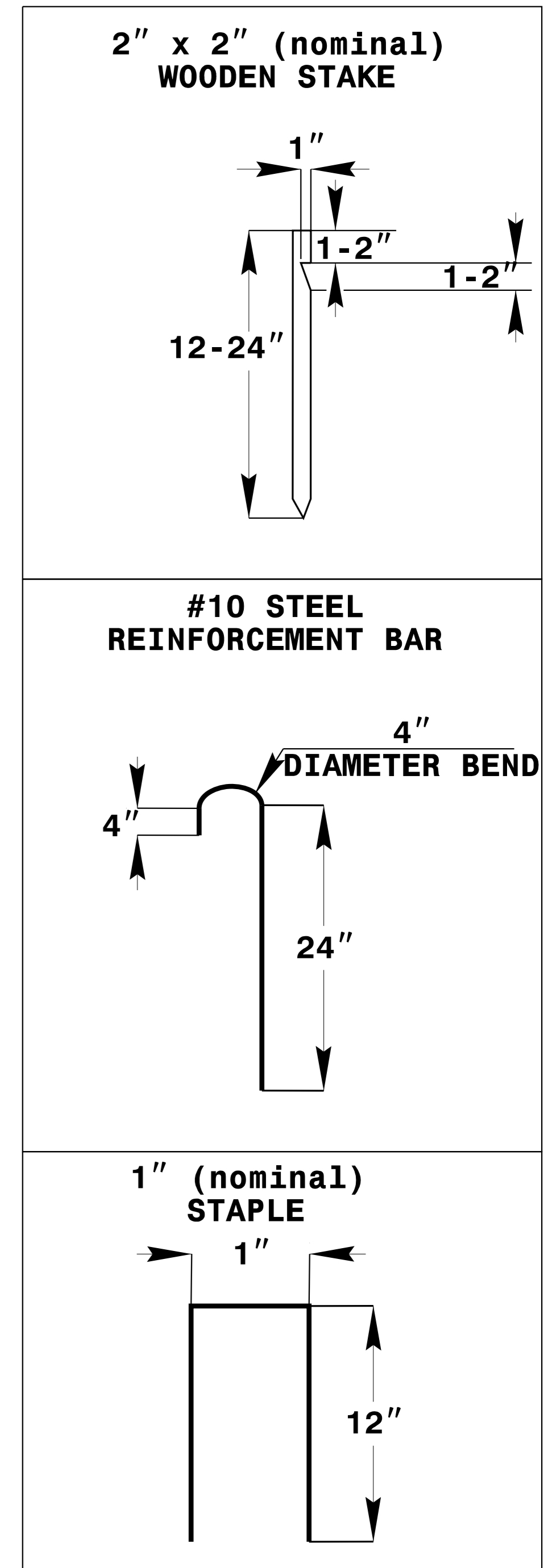
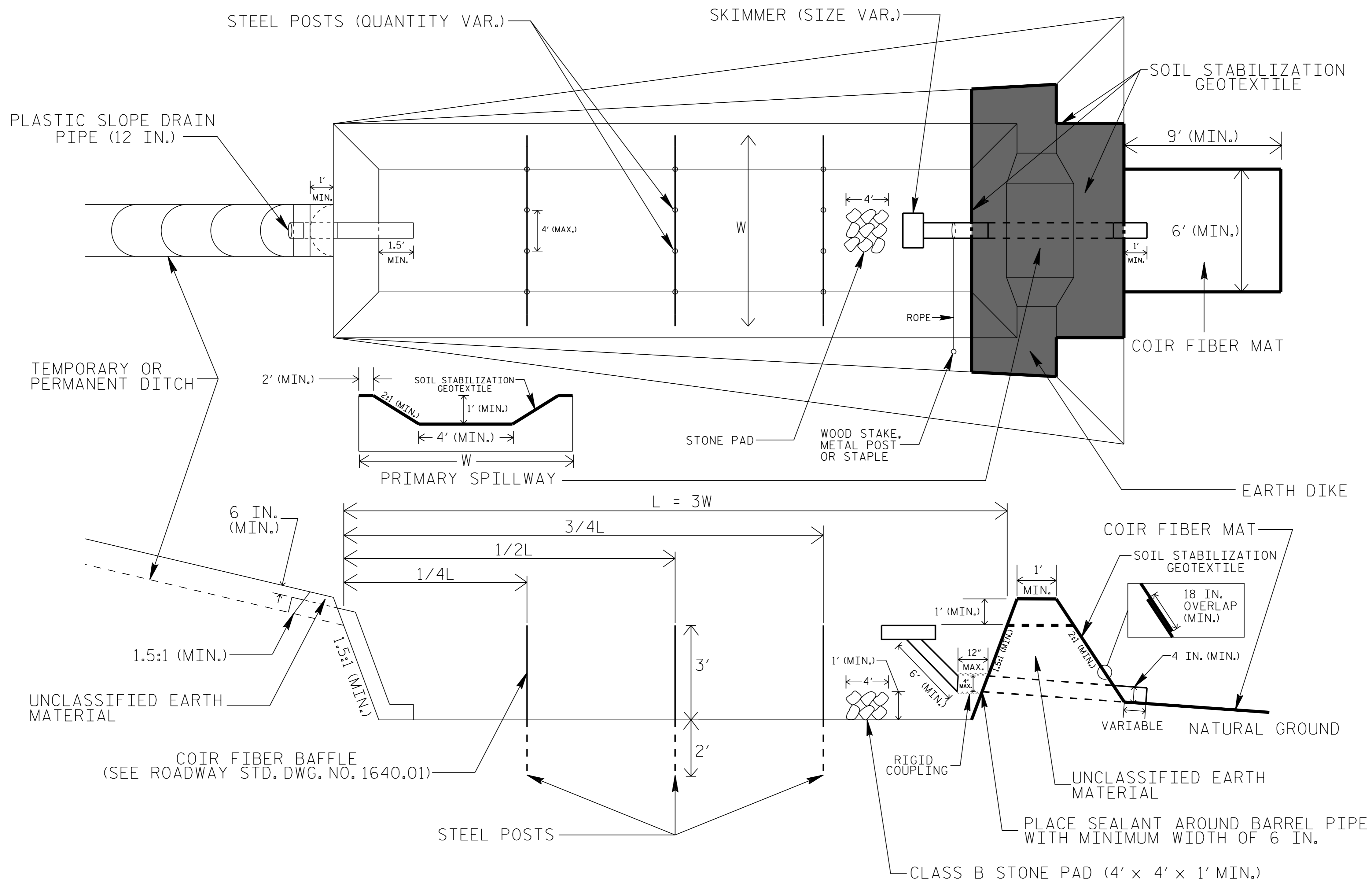




5/14/99

# SKIMMER BASIN WITH BAFFLES DETAIL



## COIR FIBER MAT ANCHOR OPTIONS

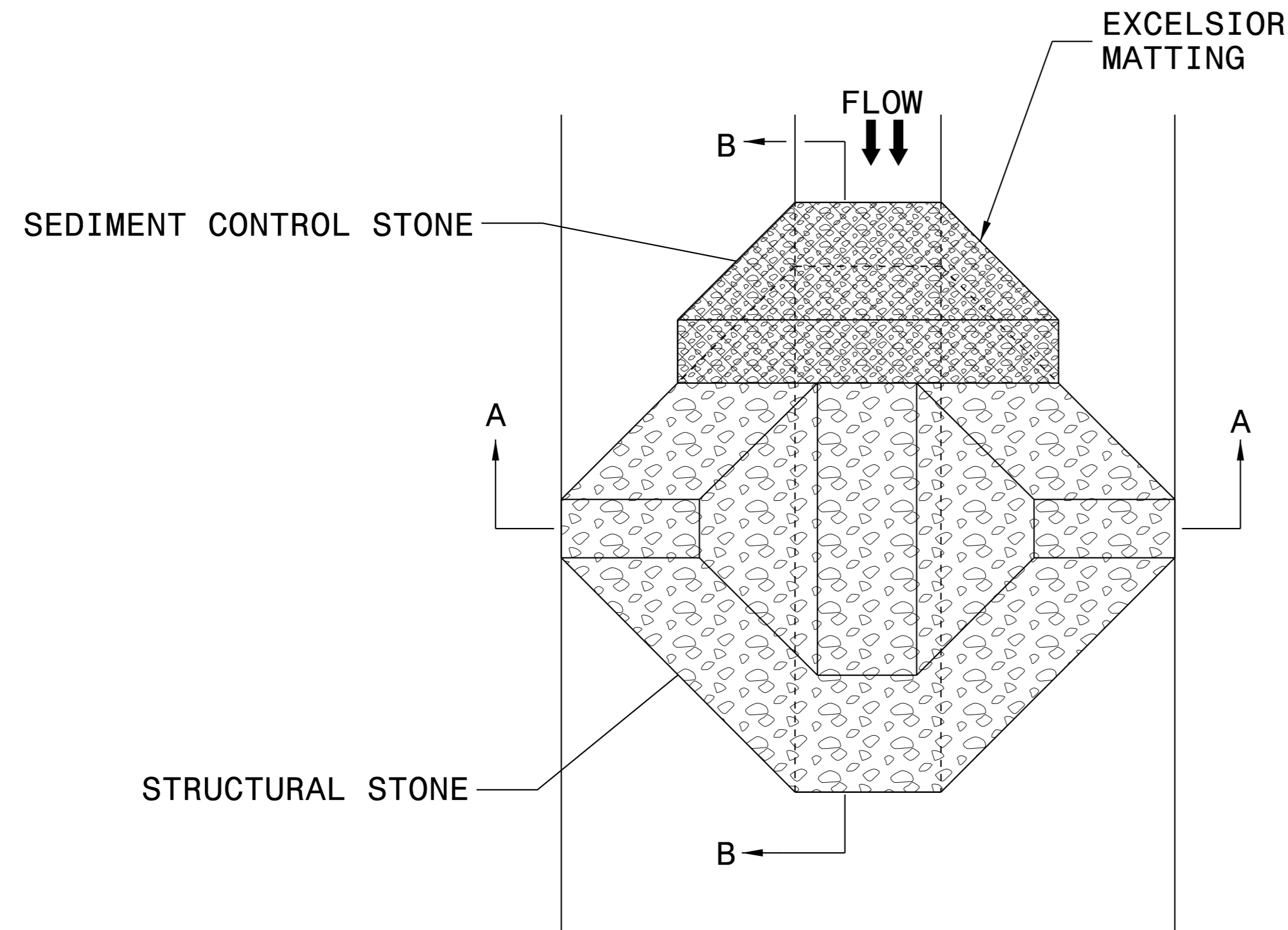
### NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

5/12/2023

# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

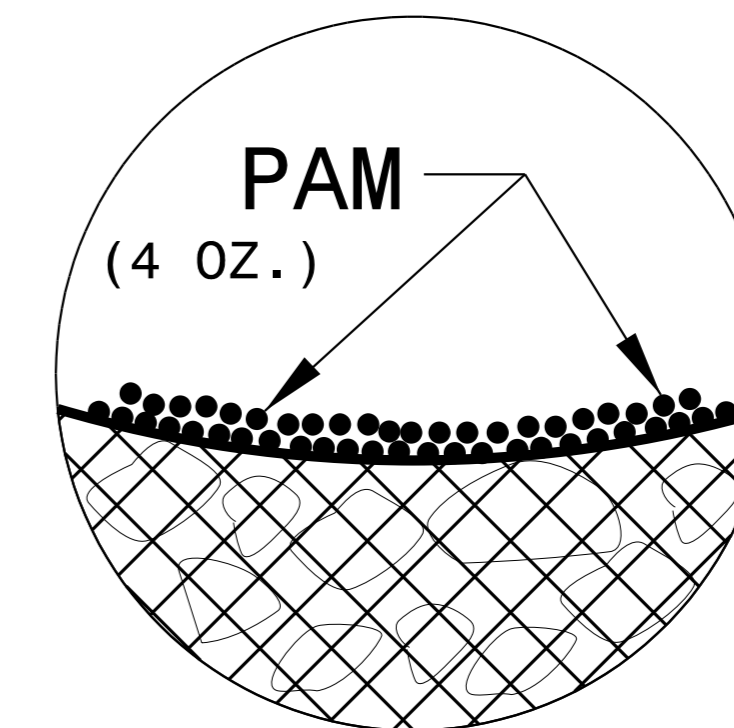
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

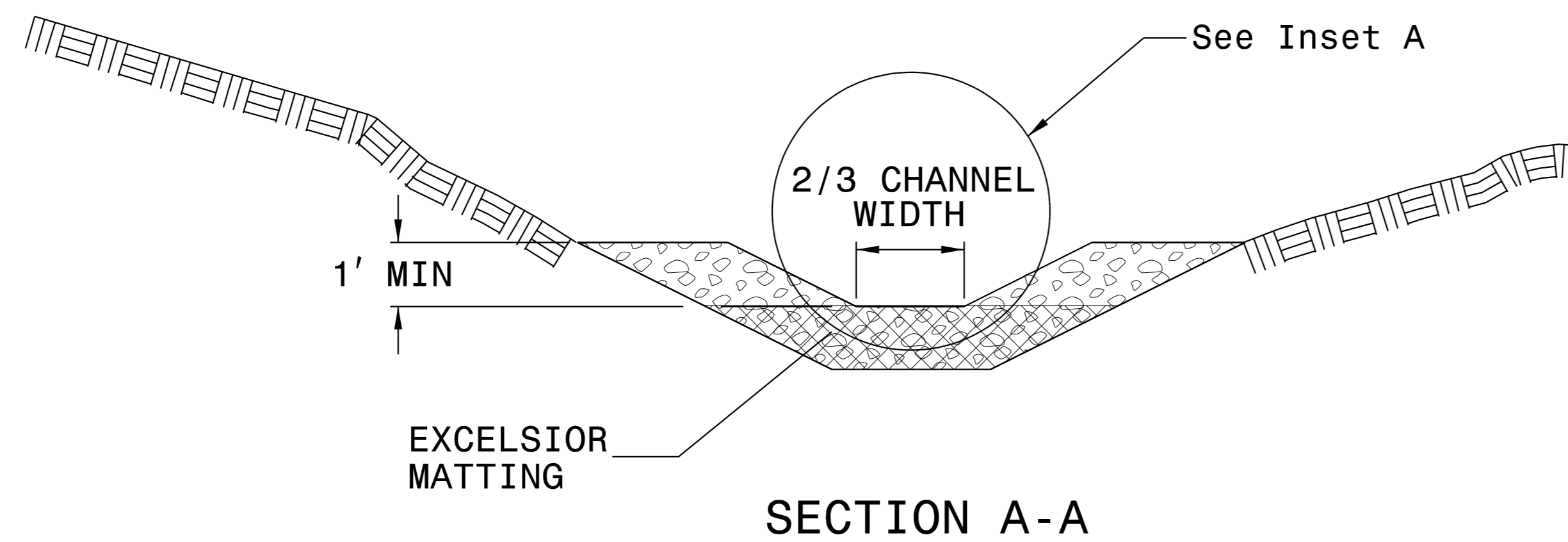
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

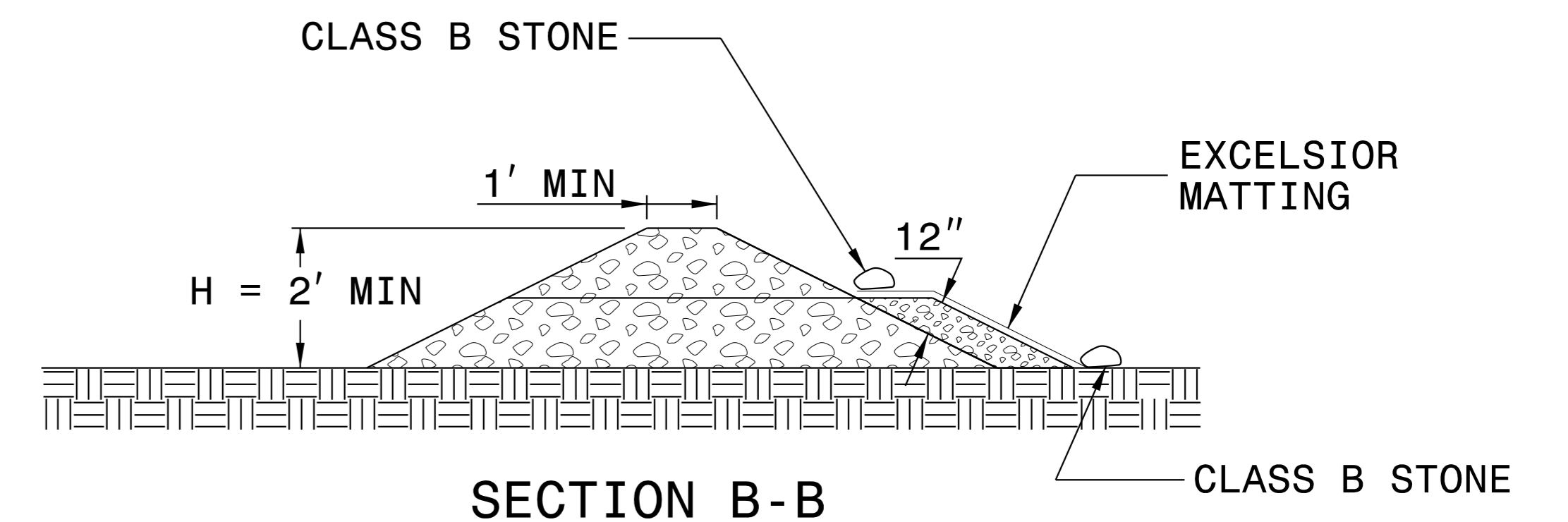
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



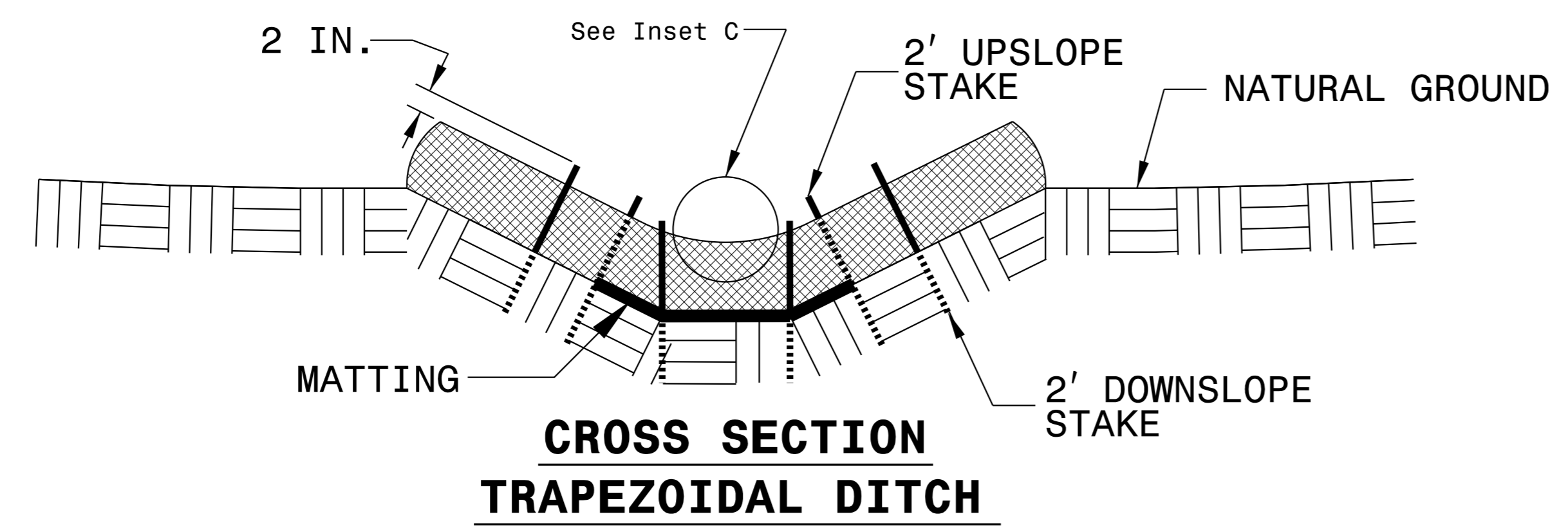
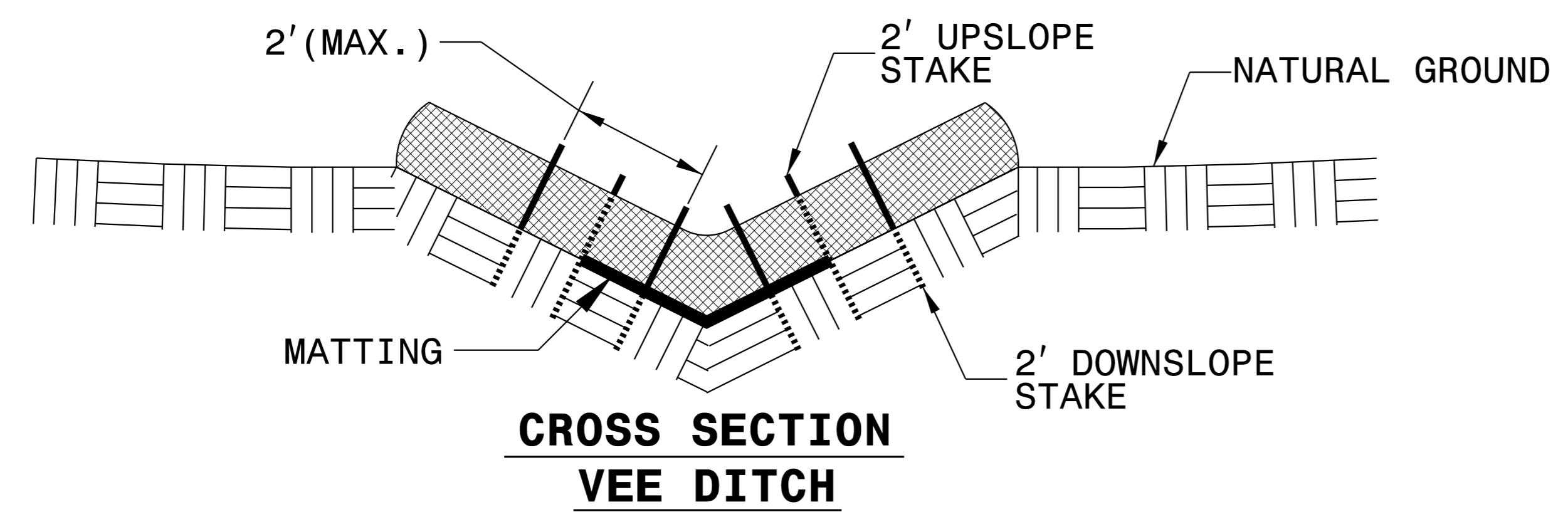
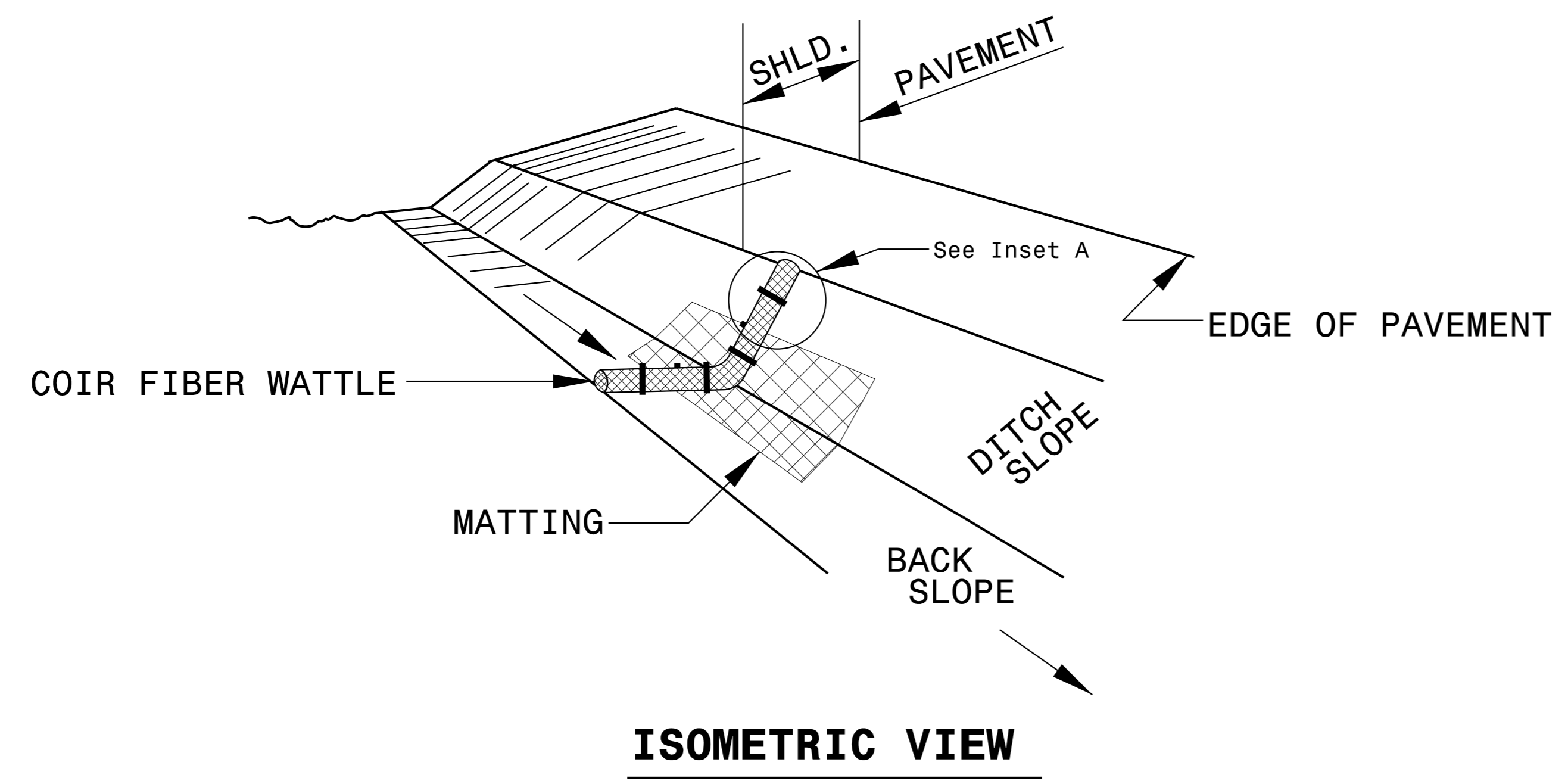
SECTION A-A



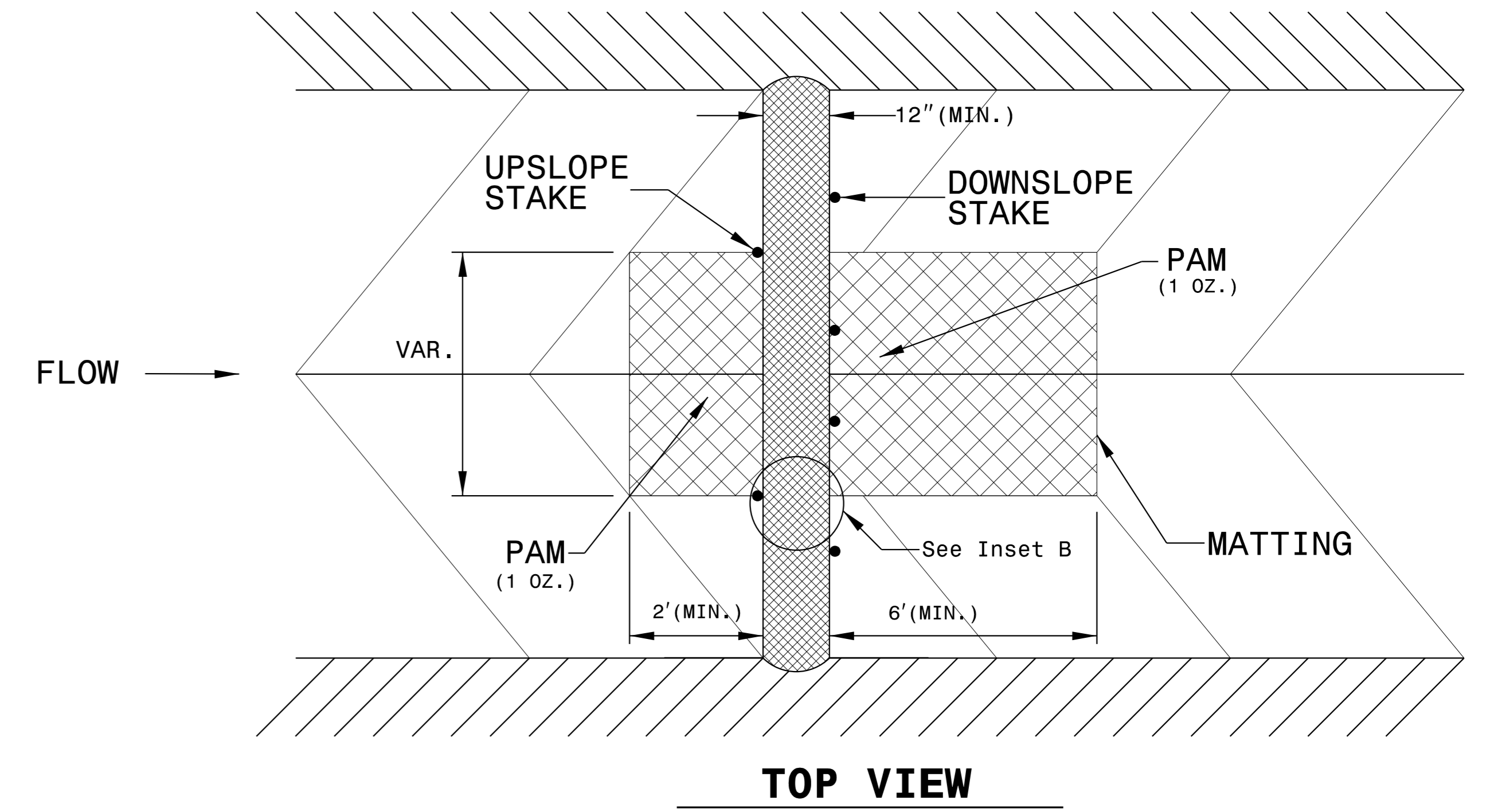
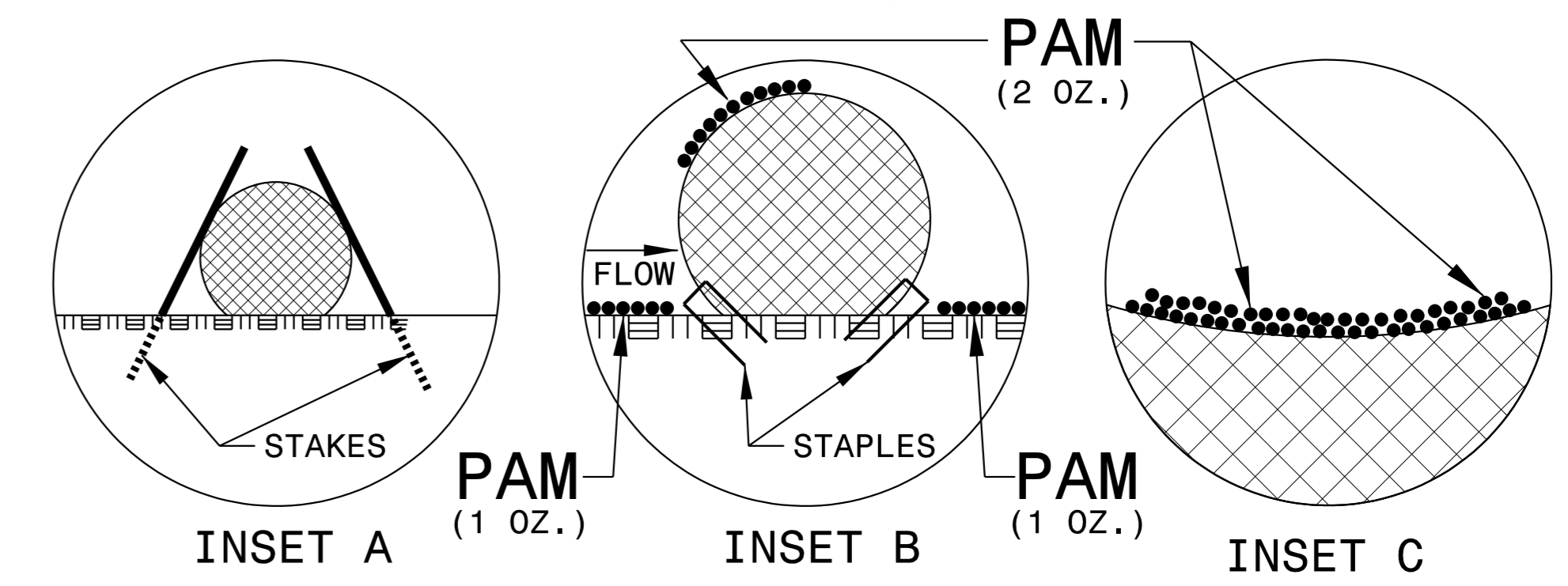
SECTION B-B

NOT TO SCALE

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



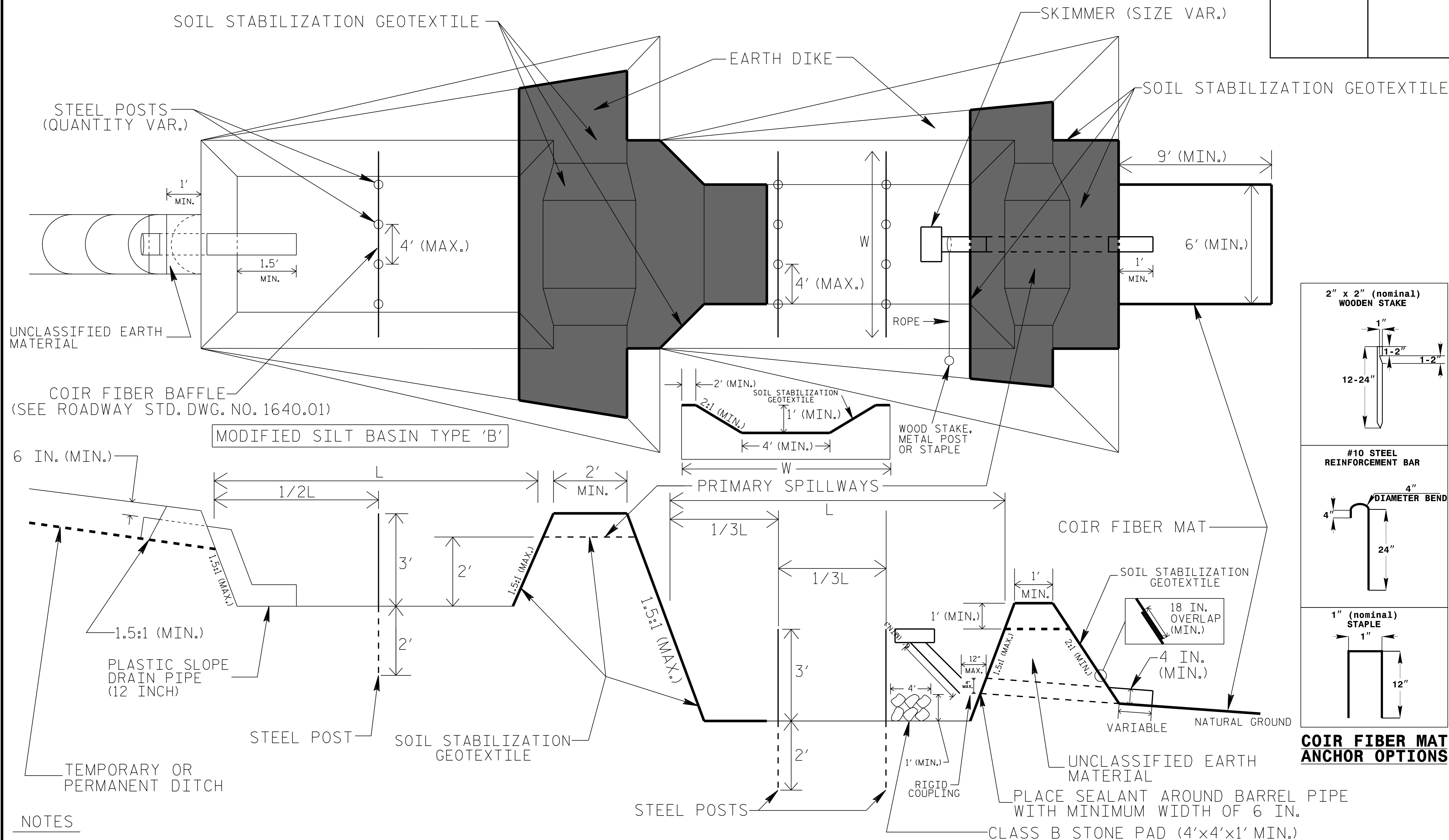
- NOTES:**
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
  - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
  - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



# TIERED SKIMMER BASIN DETAIL

**Kimley»Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



## NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY WEIR LENGTHS (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



PROJECT REFERENCE NO.	SHEET NO.
R-5930A	EC-3A

***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

5/14/99

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

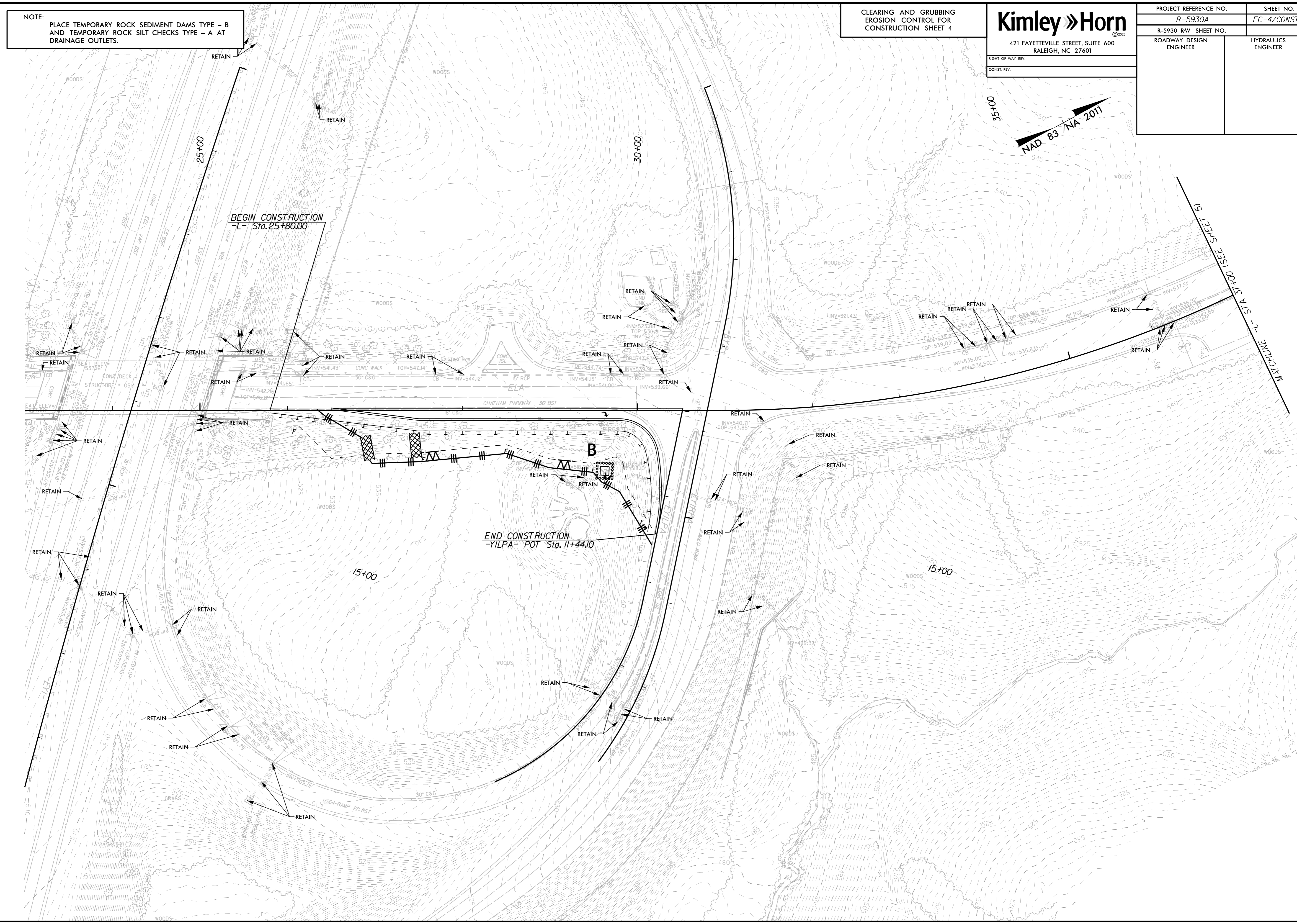
**Kimley » Horn**

421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

RIGHT-OF-WAY REV.  
CONST. REV.

PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-4/CONST.4
R-5930 RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

REVISIONS





5/14/99

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

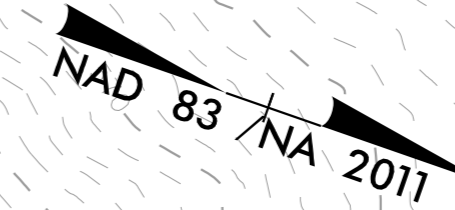
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5

**Kimley » Horn**

421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

RIGHT-OF-WAY REV.  
CONST. REV.

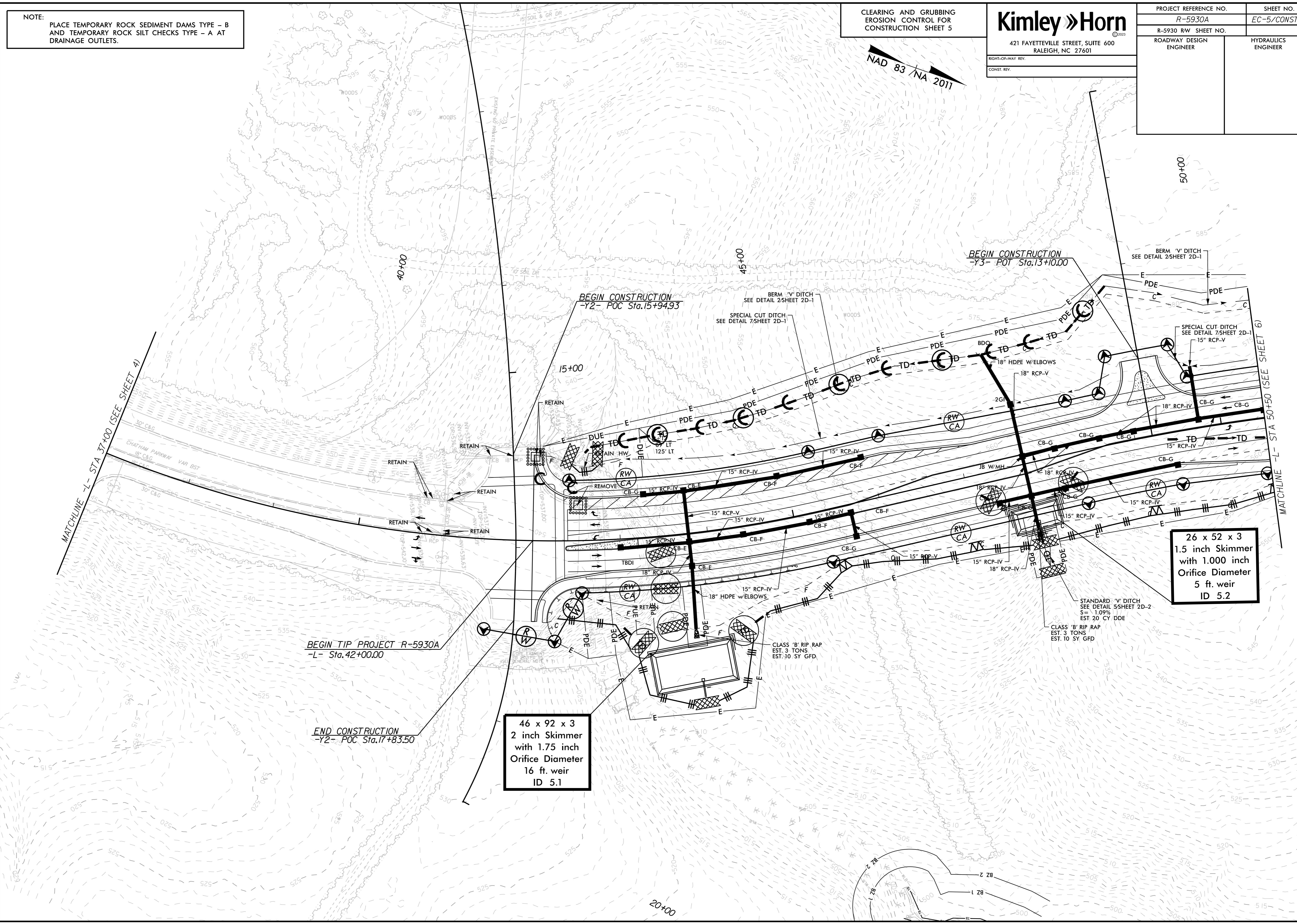
PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-5/CONST.5
R-5930 RW SHEET NO.	ROADWAY DESIGN ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

MATCHLINE -L- STA 37+00 (SEE SHEET 4)

MATCHLINE -L- STA 50+50 (SEE SHEET 6)



46 x 92 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
16 ft. weir  
ID 5.1

26 x 52 x 3  
1.5 inch Skimmer  
with 1.000 inch  
Orifice Diameter  
5 ft. weir  
ID 5.2

STANDARD 'V' DITCH  
SEE DETAIL 5/SHEET 2D-2  
S = 1.09%  
EST 20 CY DDE  
CLASS 'B' RIP RAP  
EST. 3 TONS  
EST. 10 SY GFD

CLASS 'B' RIP RAP  
EST. 3 TONS  
EST. 10 SY GFD

BEGIN TIP PROJECT R-5930A  
-L- Sta.42+00.00

BEGIN CONSTRUCTION  
-Y2- POC Sta.15+94.93

BEGIN CONSTRUCTION  
-Y3- POC Sta.13+00.00

END CONSTRUCTION  
-Y2- POC Sta.17+83.50

20+00

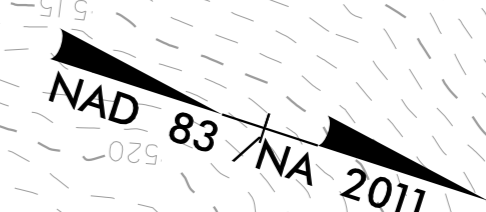
50+00

5/14/99

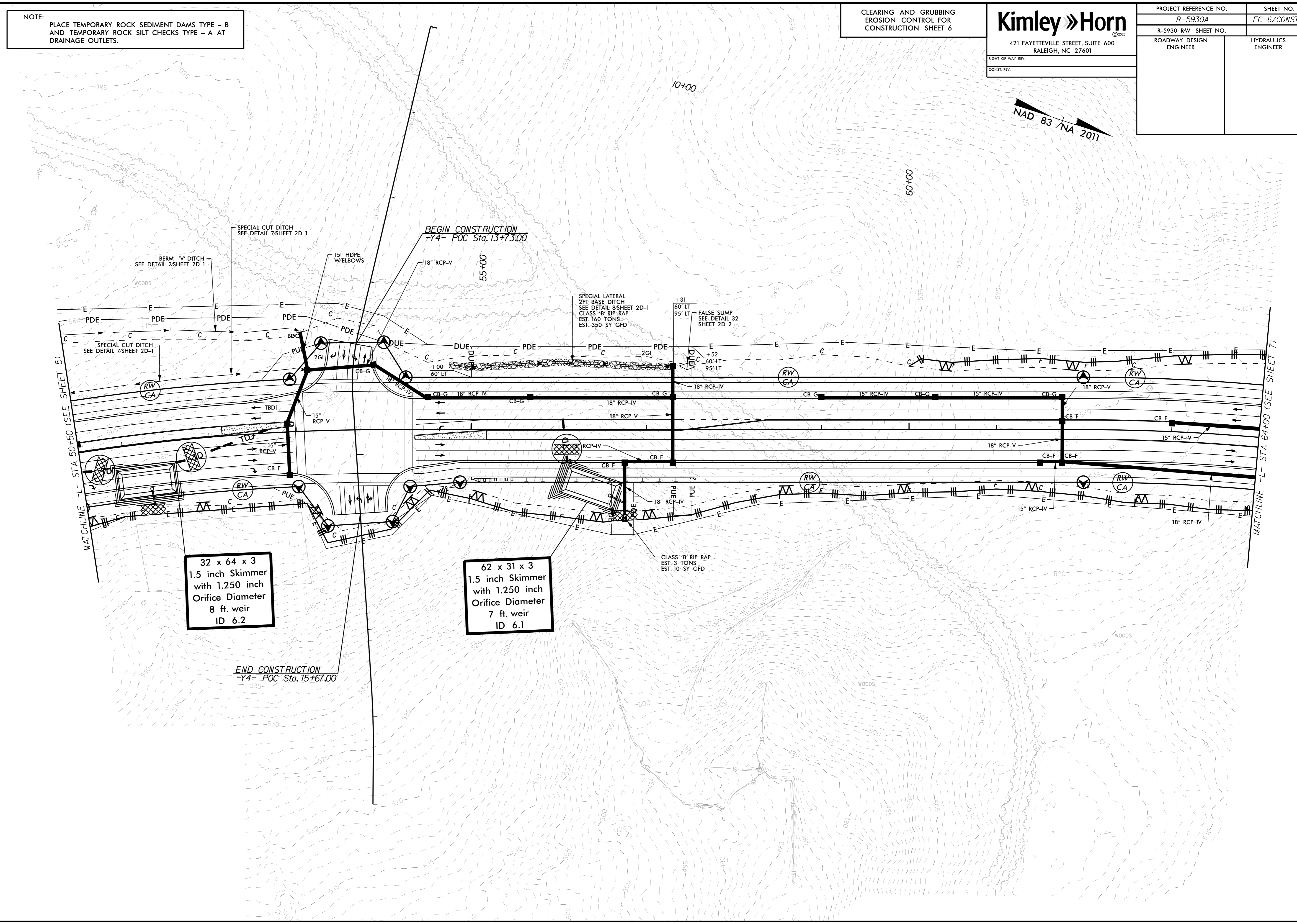
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

PROJECT REFERENCE NO. R-5930A		SHEET NO. EC-6/CONST.6	
R-5930 RW SHEET NO.		ROADWAY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601		HYDRAULICS ENGINEER	
RIGHT-OF-WAY REV.		CONST. REV.	



REVISIONS



MATCHLINE -L- STA 50+50 (SEE SHEET 5)

MATCHLINE -L- STA 64+00 (SEE SHEET 7)

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 7

**Kimley » Horn**  
421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

RIGHT-OF-WAY REV.  
CONST. REV.

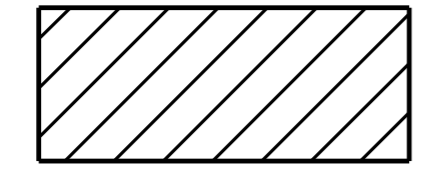
PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-7/CONST.7
R-5930 RW SHEET NO.	ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER	

NAD 83 / NA 2011

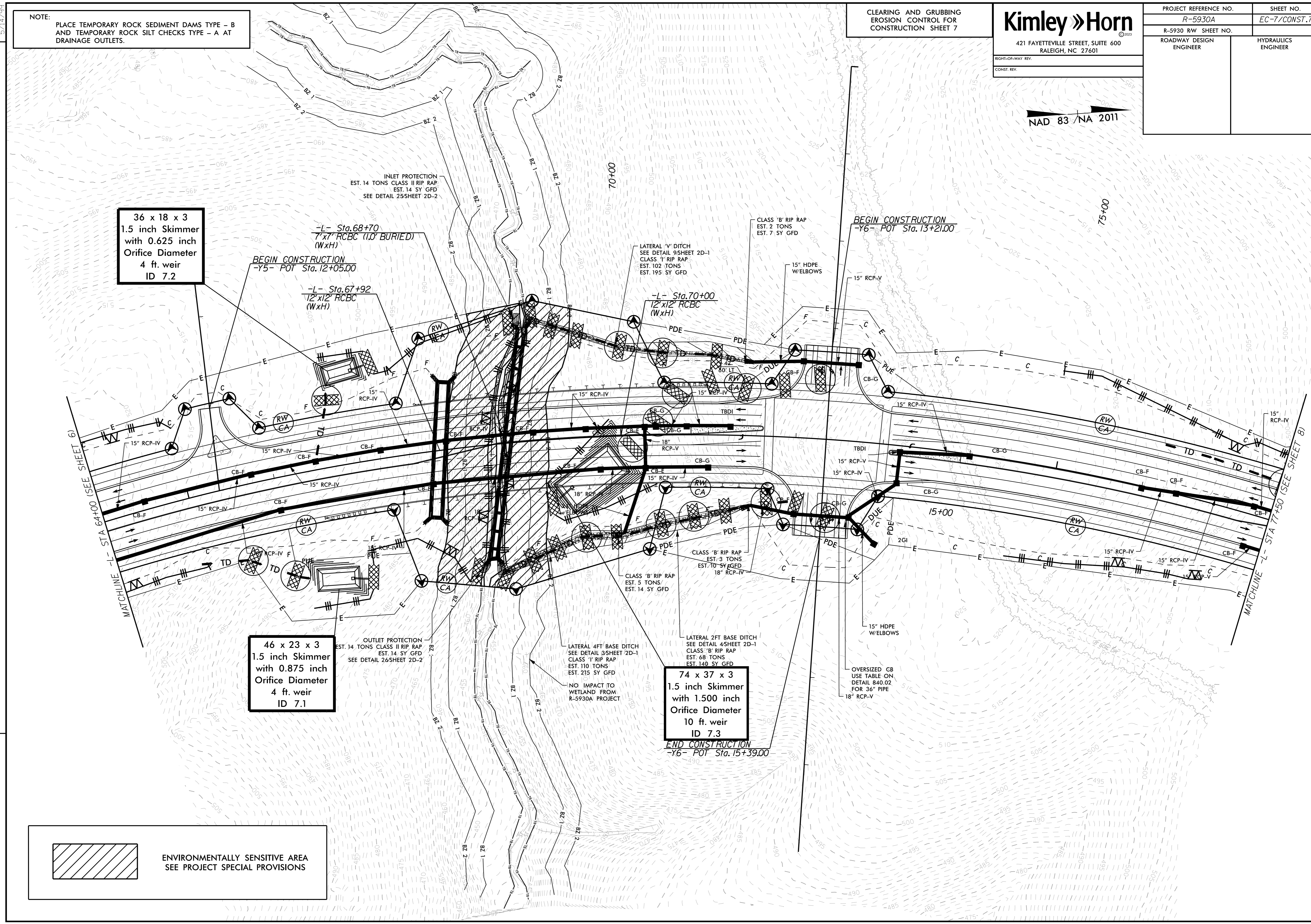
36 x 18 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
4 ft. weir  
ID 7.2

46 x 23 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 7.1

74 x 37 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
10 ft. weir  
ID 7.3

 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

REVISIONS



5/14/99

PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-7A/CONST.7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 68+70-L-

## PHASE I

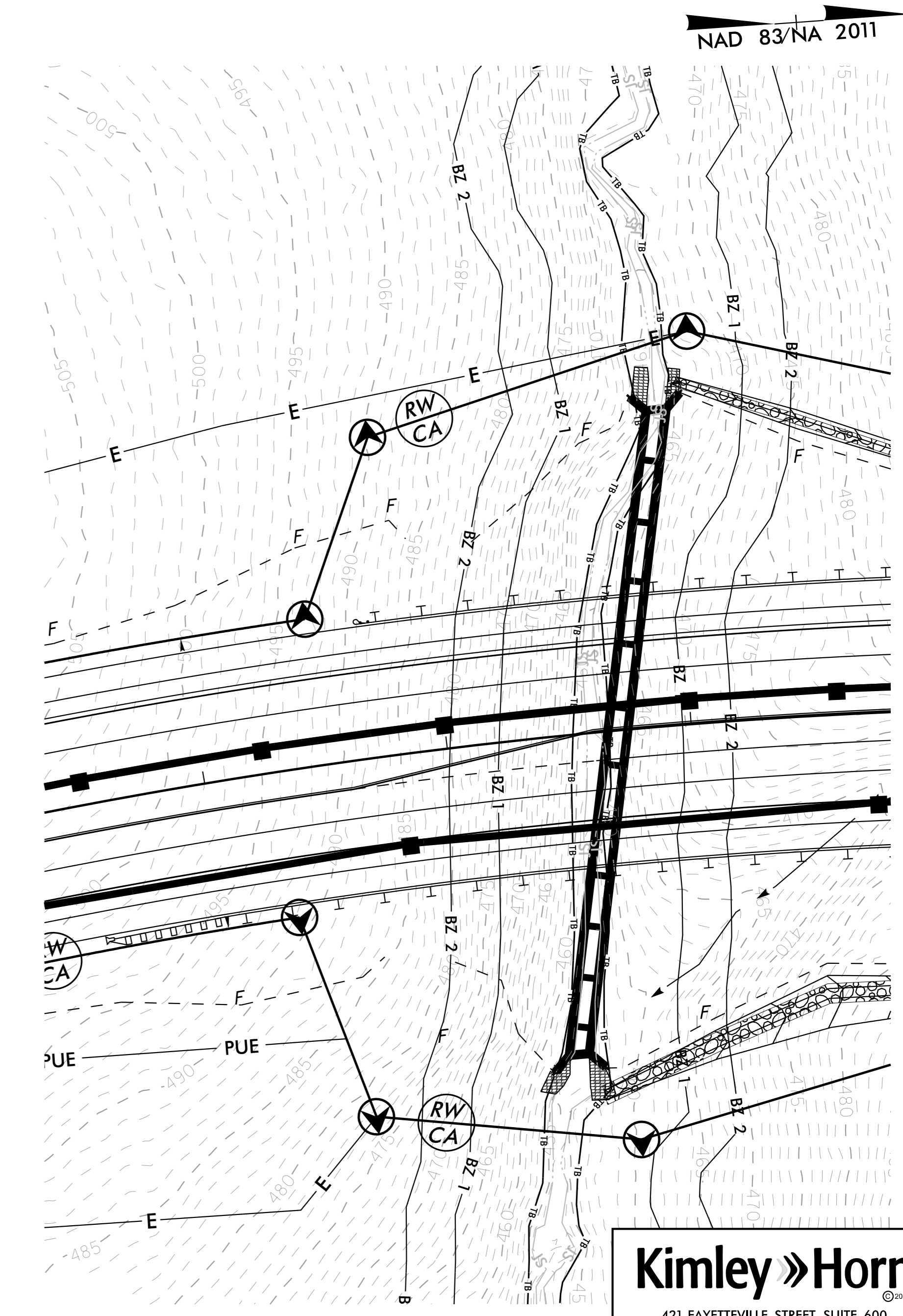
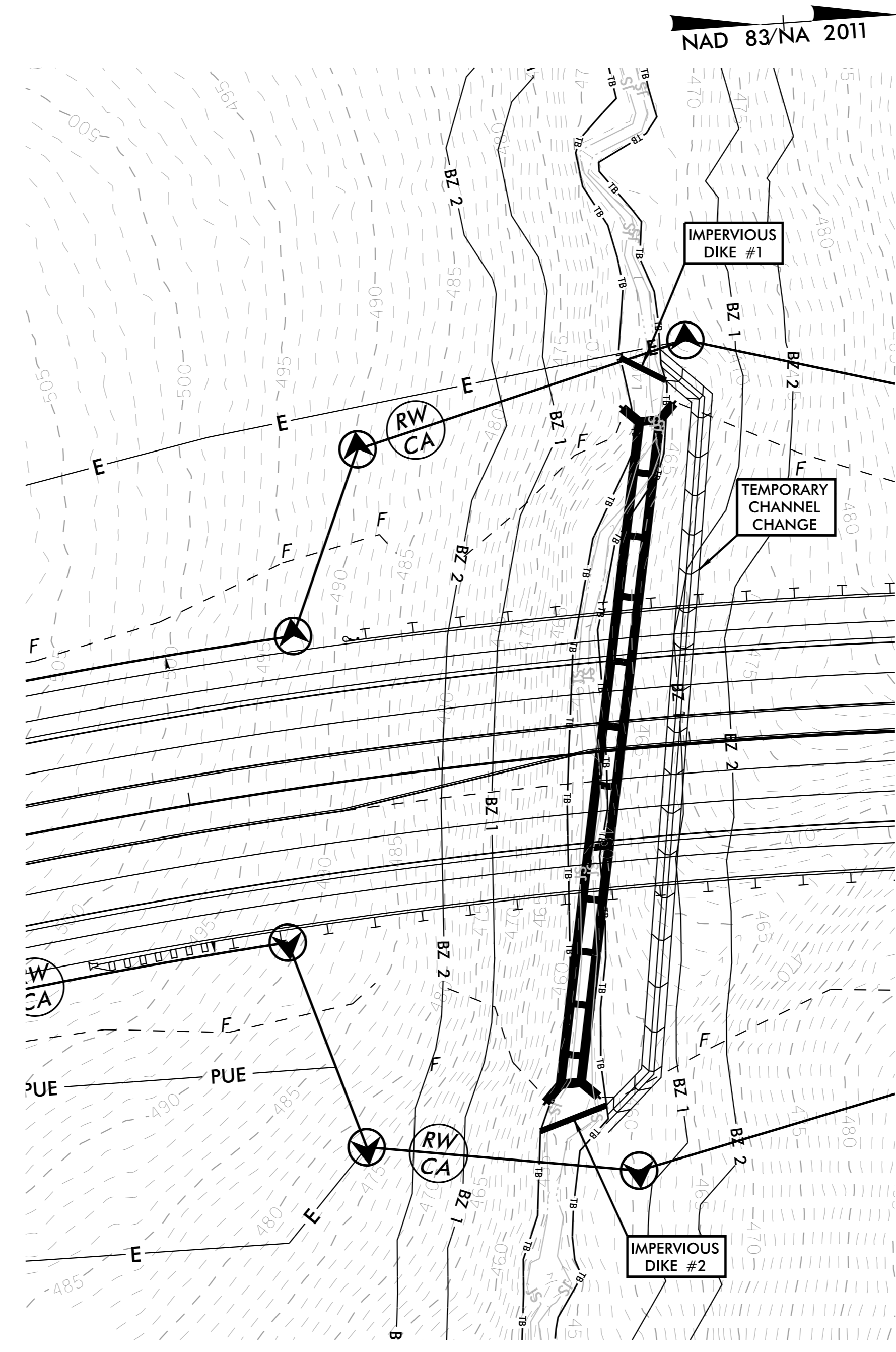
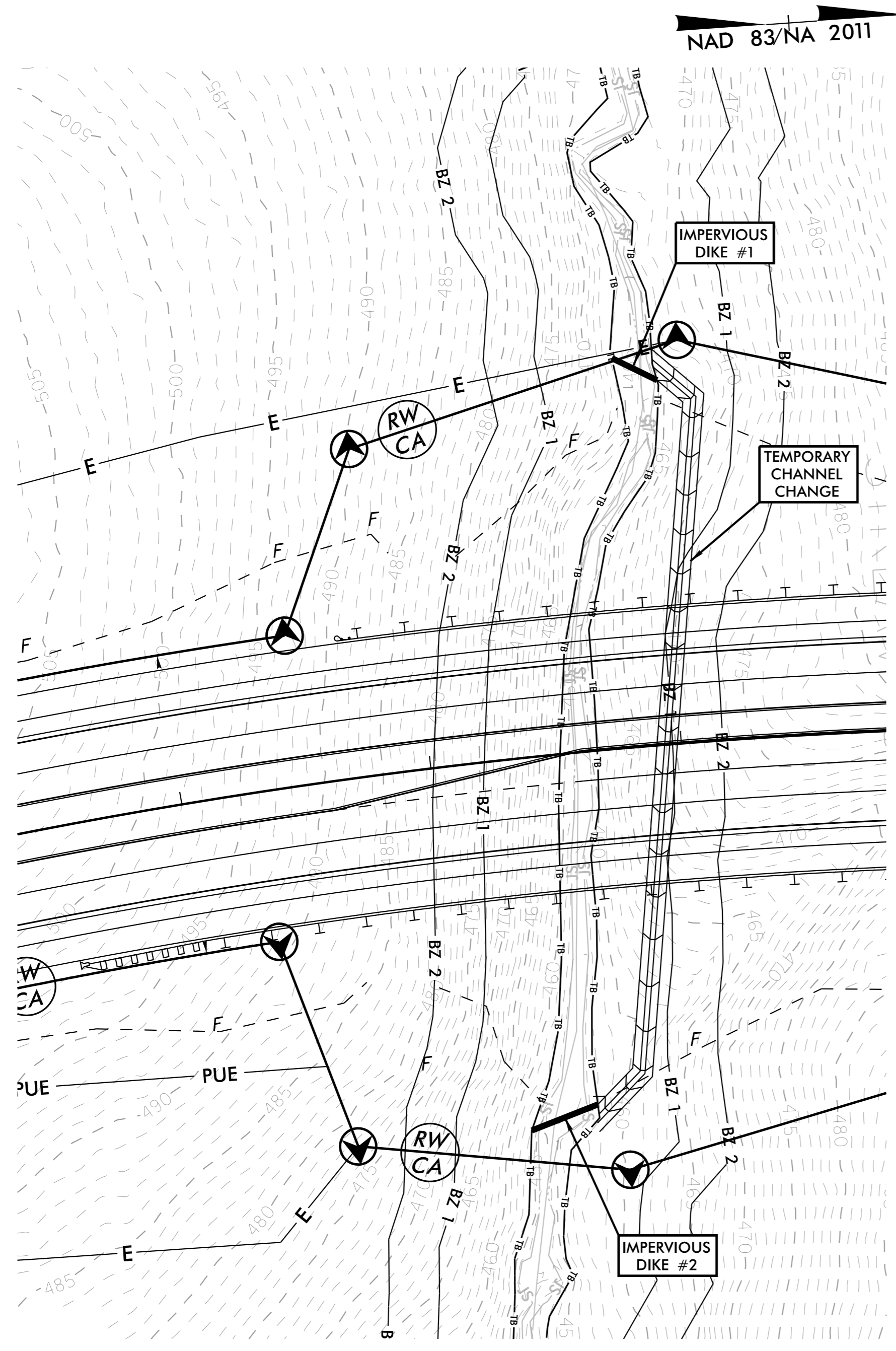
- 1.) UTILIZE SPECIAL STILLING BASIN(S) DURING CONSTRUCTION AS NEEDED TO DEWATER WORK SITE. (TYP.)
- 2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2 FT BASE, 1.5 FT DEEP, 2:1 SIDE SLOPES).
- 3.) CONSTRUCT IMPERVIOUS DIKES 1 AND 2 DIVERTING FLOW THROUGH TEMPORARY CHANNEL CHANGE.

## PHASE II

- 1.) CONSTRUCT PROPOSED 1 @ 7' X 7' RCBC, 1' BURIED.
- 2.) ADJUST TEMPORARY CHANNEL CHANGE AS NECESSARY TO MAKE UPSTREAM AND DOWNSTREAM CHANNEL IMPROVEMENTS WITHIN EASEMENTS AND PLACE REQUIRED RIPRAP AND MATTING ON CHANNEL BANKS.

## PHASE III

- 1.) REMOVE IMPERVIOUS DIKE 1 AND 2 AND REMOVE TEMPORARY CHANNEL CHANGE.
- 2.) REMOVE SPECIAL STILLING BASIN.
- 3.) STABILIZE DISTURBED AREA AND REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES AS DIRECTED.
- 4.) FINISH ROADWAY AND DRAINAGE CONSTRUCTION.



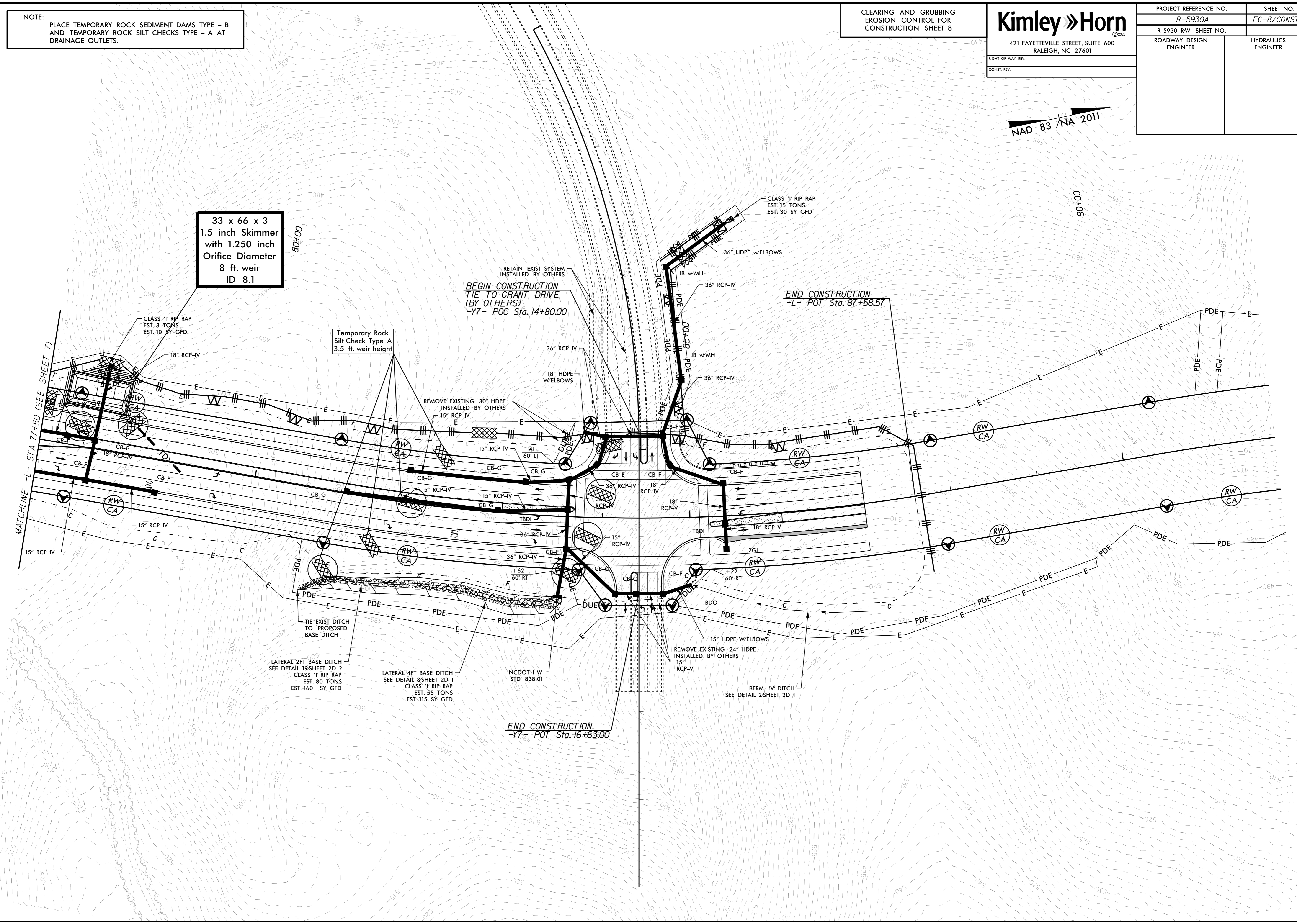
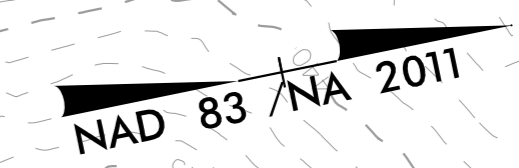
5/12/2023

5/14/99

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8

PROJECT REFERENCE NO. R-5930A		SHEET NO. EC-8/CONST.8	
R-5930 RW SHEET NO.		ROADWAY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601		HYDRAULICS ENGINEER	
RIGHT-OF-WAY REV.		CONST. REV.	

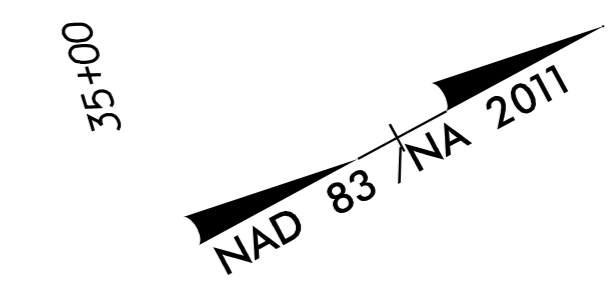


REVISIONS

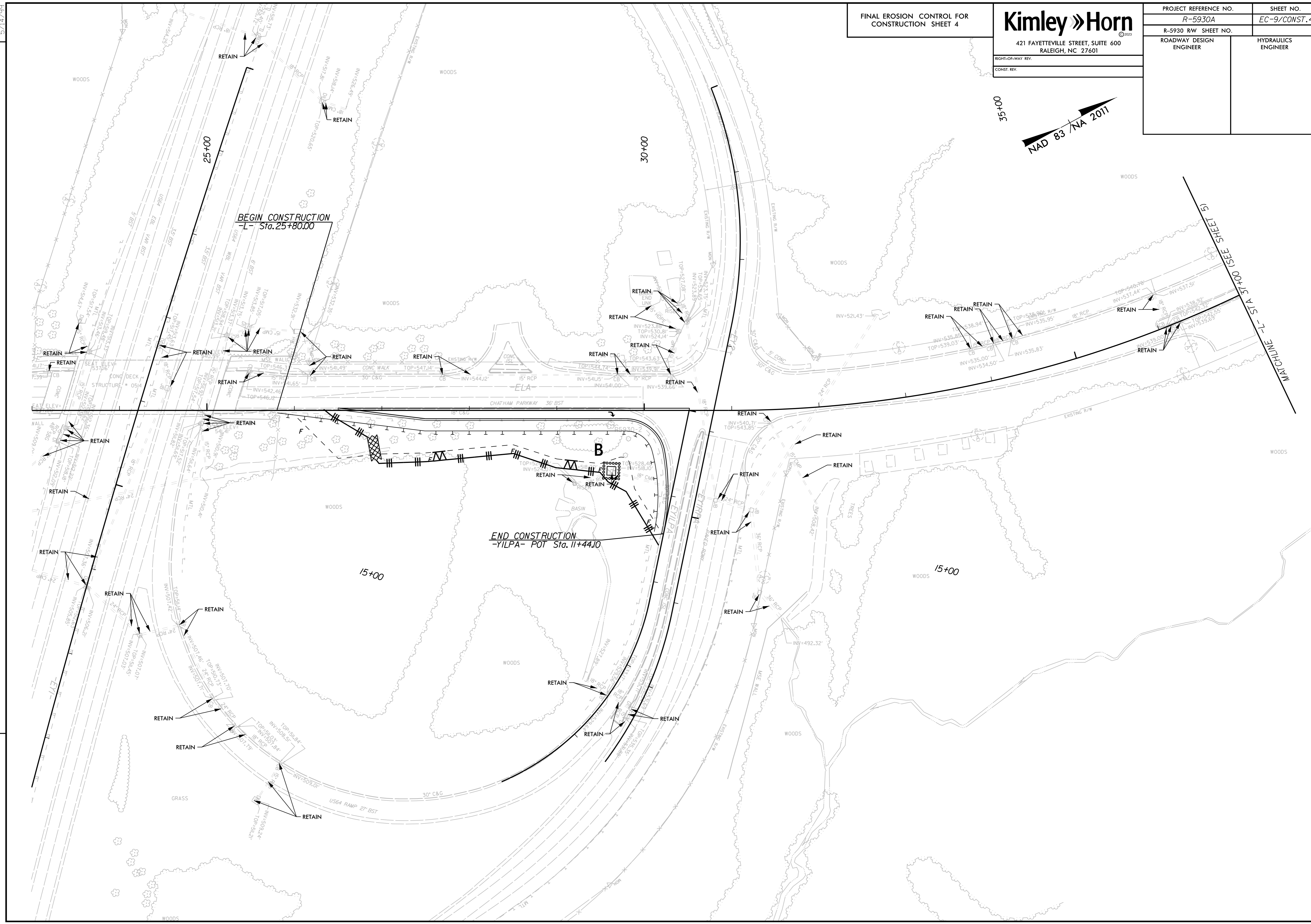
**Kimley » Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

RIGHT-OF-WAY REV.  
 CONST. REV.

PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-9/CONST.4
R-5930 RW SHEET NO.	ROADWAY DESIGN ENGINEER
	HYDRAULICS ENGINEER



REVISIONS



5/14/99

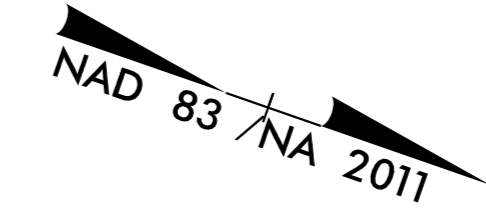
5/14/99

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 5

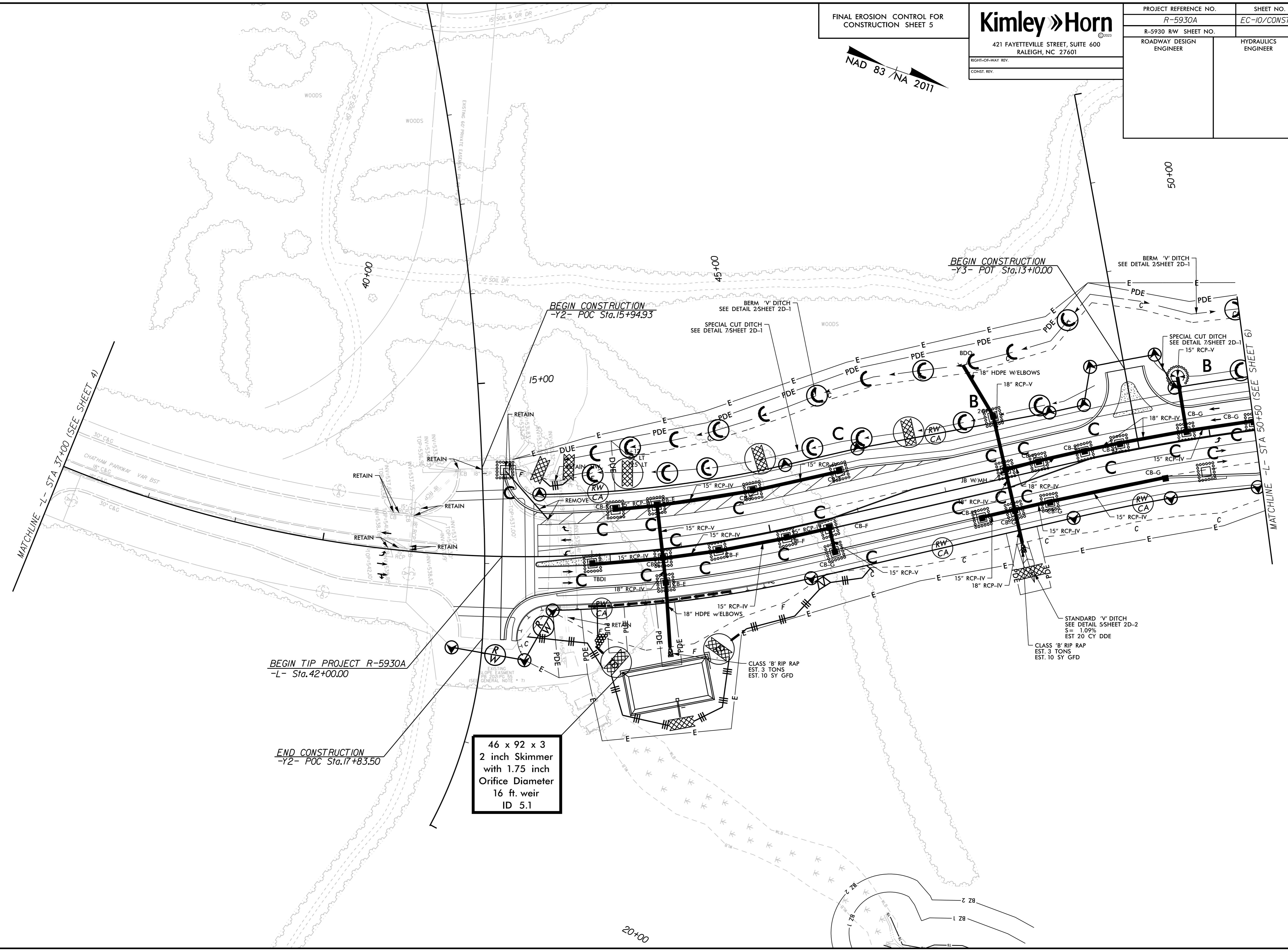
**Kimley Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

RIGHT-OF-WAY REV.  
 CONST. REV.

PROJECT REFERENCE NO. R-5930A	SHEET NO. EC-10/CONST.5
R-5930 RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



REVISIONS



MATCHLINE -L- STA 37+00 (SEE SHEET 4)

CHATHAM PARKWAY VAR EST

30" C&G

18" C&G

30" C&G

BEGIN TIP PROJECT R-5930A  
 -L- Sta. 42+00.00

END CONSTRUCTION  
 -Y2- POC Sta. 17+83.50

46 x 92 x 3  
 2 inch Skimmer  
 with 1.75 inch  
 Orifice Diameter  
 16 ft. weir  
 ID 5.1

CLASS 'B' RIP RAP  
 EST. 3 TONS  
 EST. 10 SY GFD

STANDARD 'V' DITCH  
 SEE DETAIL 5/SHEET 2D-2  
 S = 1.09%  
 EST 20 CY DDE  
 CLASS 'B' RIP RAP  
 EST. 3 TONS  
 EST. 10 SY GFD

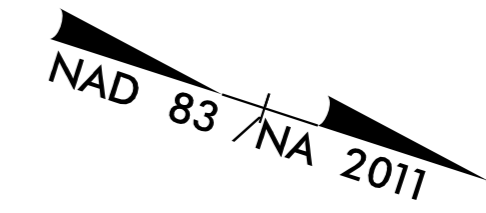
20+00

50+00

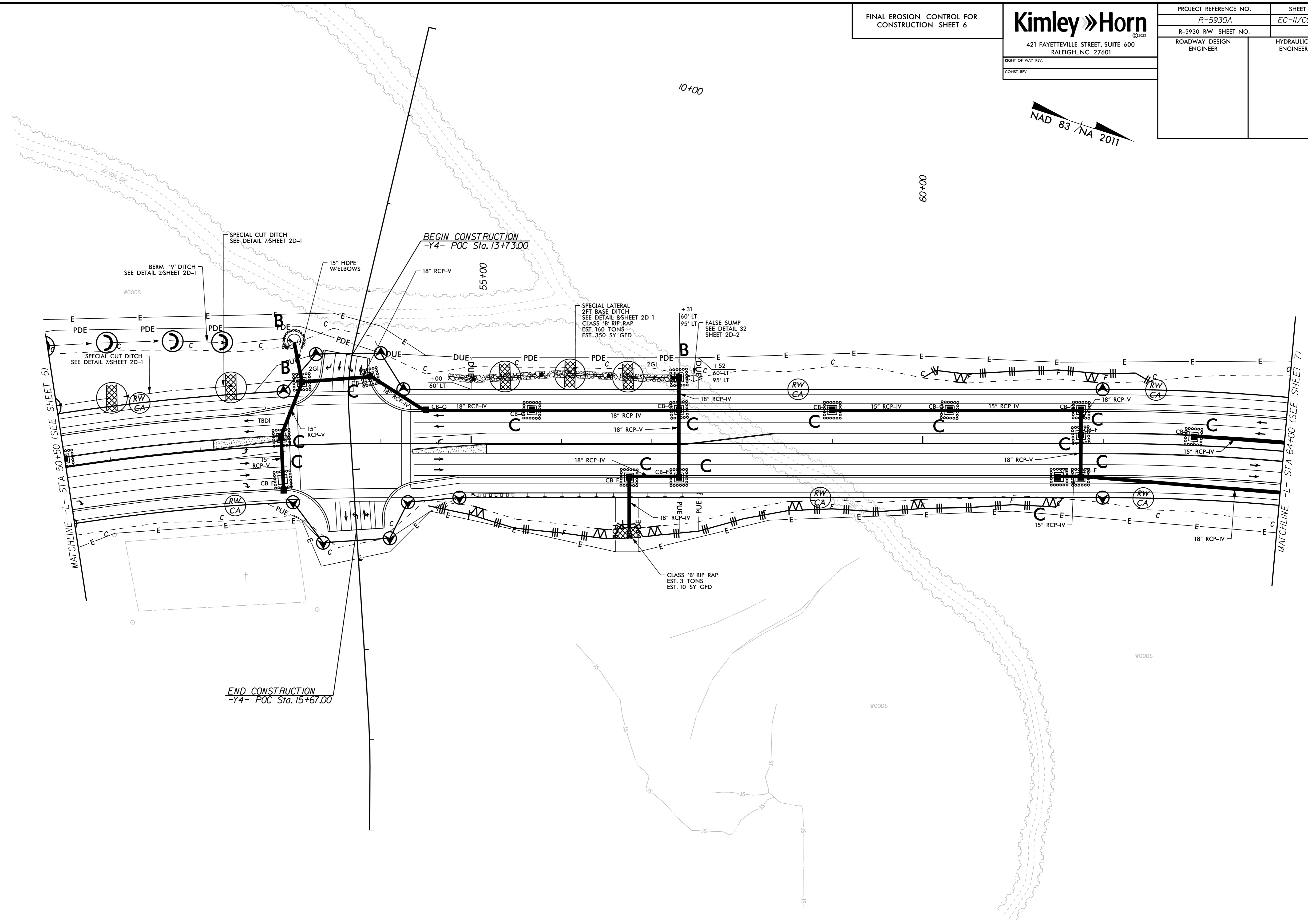
5/14/99

FINAL EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

PROJECT REFERENCE NO. R-5930A		SHEET NO. EC-II/CONST. 6	
R-5930 RW SHEET NO.		ROADWAY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601		HYDRAULICS ENGINEER	
RIGHT-OF-WAY REV. CONST. REV.			



REVISIONS



MATCHLINE -L- STA 50+50 (SEE SHEET 5)

MATCHLINE -L- STA 64+00 (SEE SHEET 7)

END CONSTRUCTION  
-Y4- POC Sta. 15+67.00

BEGIN CONSTRUCTION  
-Y4- POC Sta. 13+73.00

10+00

60+00

55+00

CLASS 'B' RIP RAP  
EST. 3 TONS  
EST. 10 SY GFD

SPECIAL LATERAL  
2FT BASE DITCH  
SEE DETAIL 8 SHEET 2D-1  
CLASS 'B' RIP RAP  
EST. 160 TONS  
EST. 350 SY GFD

FALSE SUMP  
SEE DETAIL 32  
SHEET 2D-2

BERM 'V' DITCH  
SEE DETAIL 2 SHEET 2D-1

SPECIAL CUT DITCH  
SEE DETAIL 7 SHEET 2D-1

SPECIAL CUT DITCH  
SEE DETAIL 7 SHEET 2D-1

15" HDPE  
WELBOWS

18" RCP-V

15" RCP-V

18" RCP-IV

18" RCP-IV

18" RCP-IV

18" RCP-IV

15" RCP-IV

15" RCP-IV

18" RCP-V

15" RCP-IV

18" RCP-IV

WOODS

WOODS

WOODS

10' SOIL DR

PDE

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15" RCP-V

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15" RCP-V

18" RCP-IV

18" RCP-IV

18" RCP-IV

18" RCP-IV

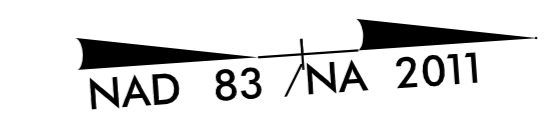
18" RCP-IV



5/14/99

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 7

PROJECT REFERENCE NO. R-5930A		SHEET NO. EC-12/CONST.7	
R-5930 RW SHEET NO.		ROADWAY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601		HYDRAULICS ENGINEER	
RIGHT-OF-WAY REV.		CONST. REV.	

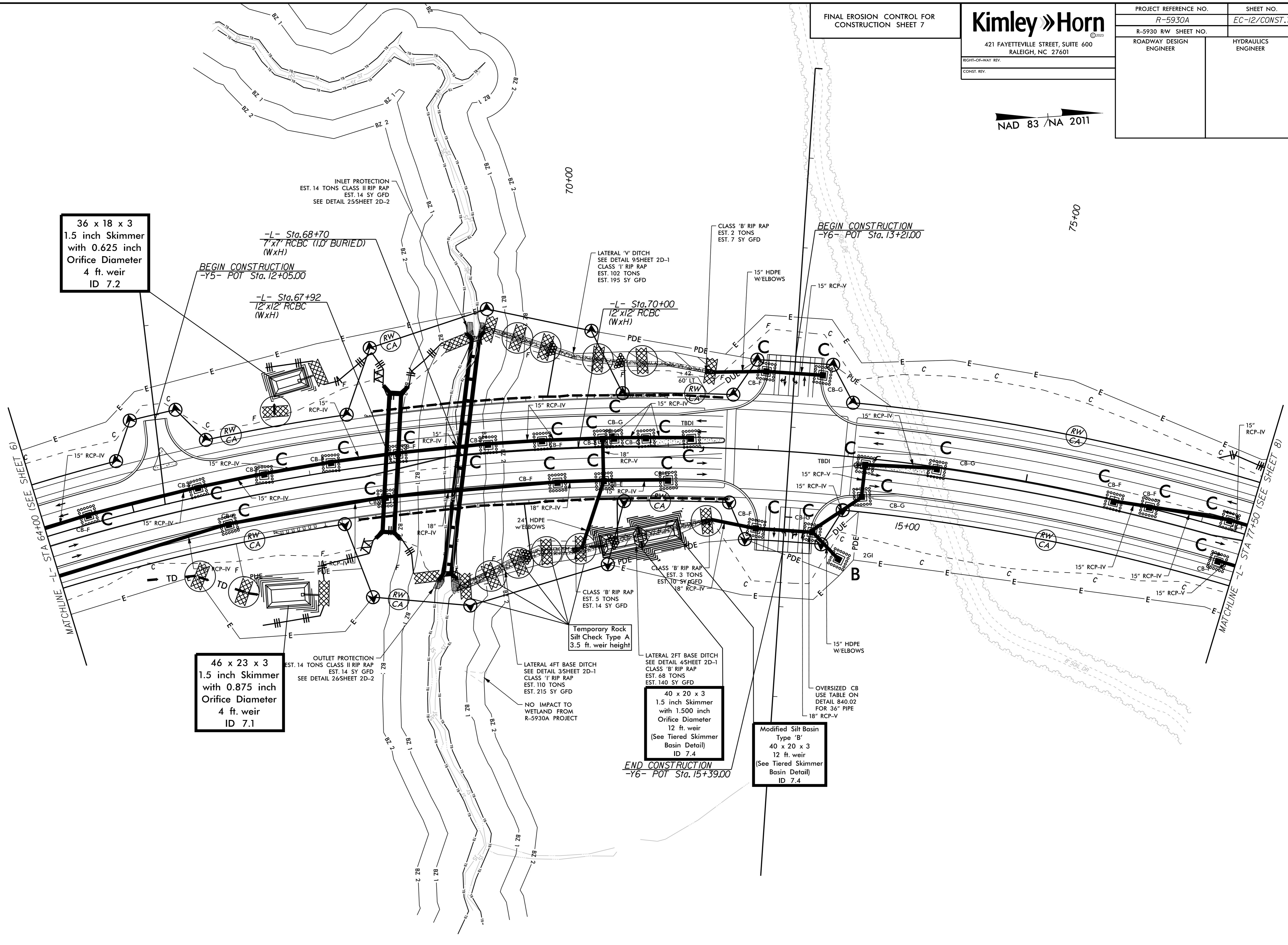


36 x 18 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
4 ft. weir  
ID 7.2

46 x 23 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 7.1

40 x 20 x 3  
1.5 inch Skimmer  
with 1.500 inch  
Orifice Diameter  
12 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.4

Modified Silt Basin  
Type 'B'  
40 x 20 x 3  
12 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.4



REVISIONS

MATCHLINE -L- STA 64+00 (SEE SHEET 6)

MATCHLINE -L- STA 77+50 (SEE SHEET 8)

INLET PROTECTION  
EST. 14 TONS CLASS II RIP RAP  
EST. 14 SY GFD  
SEE DETAIL 25/SHEET 2D-2

BEGIN CONSTRUCTION  
-Y5- POT Sta. 12+05.00

BEGIN CONSTRUCTION  
-Y6- POT Sta. 13+21.00

END CONSTRUCTION  
-Y6- POT Sta. 15+39.00

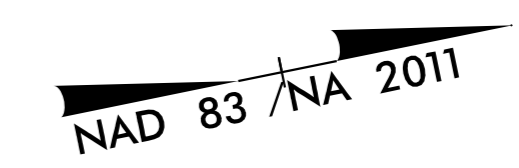
NO IMPACT TO  
WETLAND FROM  
R-5930A PROJECT

OVERSIZED CB  
USE TABLE ON  
DETAIL 840.02  
FOR 36\"/>

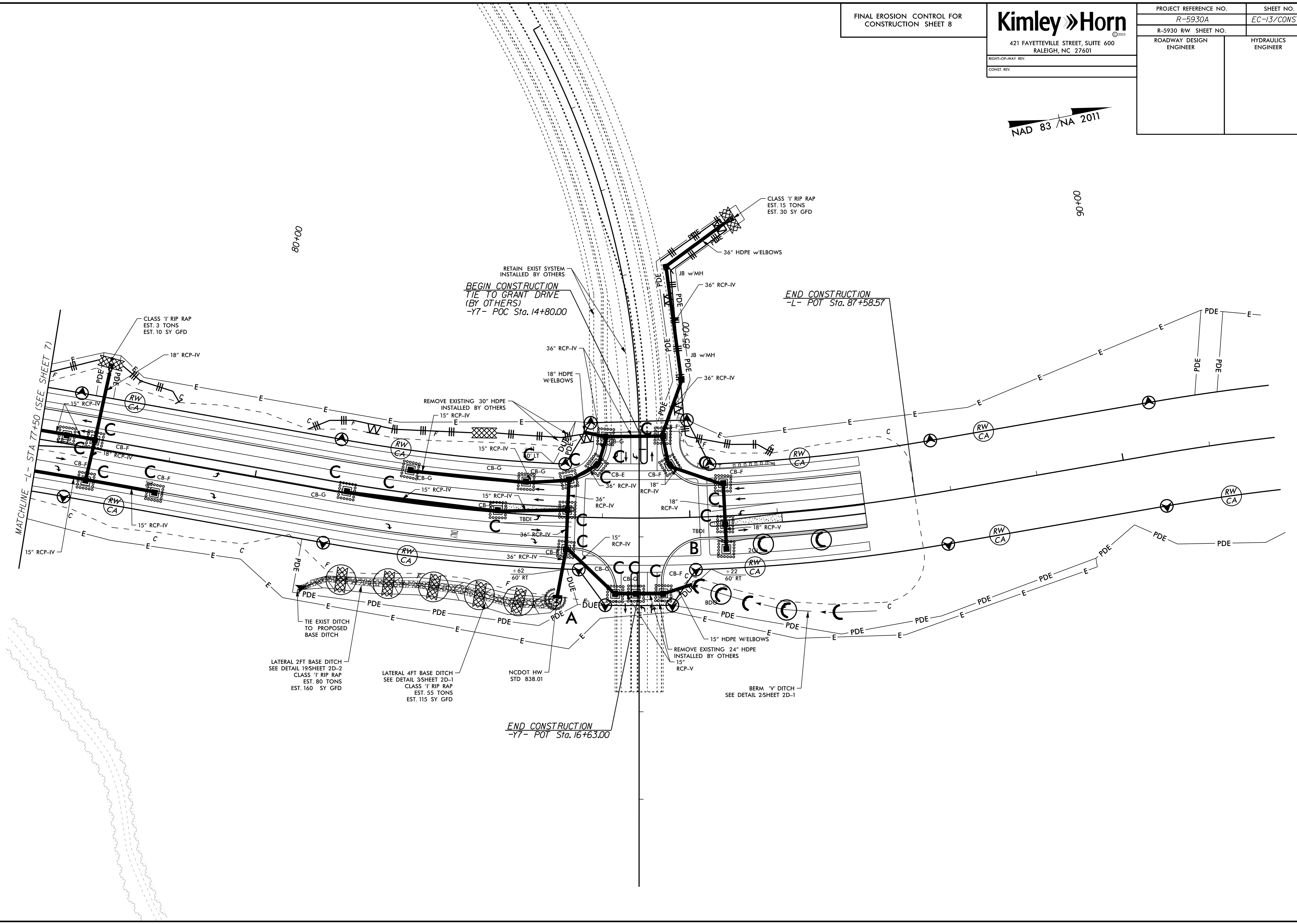
5/14/99

FINAL EROSION CONTROL FOR  
CONSTRUCTION SHEET 8

PROJECT REFERENCE NO. R-5930A		SHEET NO. EC-13/CONST.8	
R-5930 RW SHEET NO.		ROADWAY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601		HYDRAULICS ENGINEER	
RIGHT-OF-WAY REV.		CONST. REV.	



REVISIONS



MATCHLINE -L- STA 77+50 (SEE SHEET 7)

80+00

90+00

RETAIN EXIST SYSTEM  
INSTALLED BY OTHERS  
**BEGIN CONSTRUCTION**  
TIE TO GRANT DRIVE  
(BY OTHERS)  
-Y7- POC Sta. 14+80.00

**END CONSTRUCTION**  
-L- POT Sta. 87+58.57

**END CONSTRUCTION**  
-Y7- POT Sta. 16+63.00

CLASS '1' RIP RAP  
EST. 3 TONS  
EST. 10 SY GFD

CLASS '1' RIP RAP  
EST. 15 TONS  
EST. 30 SY GFD

REMOVE EXISTING 30\"/>

REMOVE EXISTING 24\"/>

LATERAL 2FT BASE DITCH  
SEE DETAIL 19/SHEET 2D-2  
CLASS '1' RIP RAP  
EST. 80 TONS  
EST. 160 SY GFD

LATERAL 4FT BASE DITCH  
SEE DETAIL 3/SHEET 2D-1  
CLASS '1' RIP RAP  
EST. 55 TONS  
EST. 115 SY GFD

NCDOT HW  
STD 838.01

BERM 'V' DITCH  
SEE DETAIL 2/SHEET 2D-1

